

In re: Asplin
Serial No.: 09/687,445

IN THE CLAIMS

(Version with Markings to show changes made.)

Please delete claims 1-6 inclusive without prejudice or disclaimer.

Please add new claims 17-21 and amend claims 7 and 12 by rewriting as follows:

7. (Once Amended) A system for lifting and leveling a slab defining at least one drilled hole said system comprising:

- a sand storage tank having a sand outlet;
- a supply of well dried mason's sand within said sand storage tank;

- a compressed air source in fluid tight connection with said sand outlet;

- a mixing chamber connected to said sand outlet and said compressed air source;

- an elongate air and sand delivery line connected to said mixing chamber; and

- an injector gun having a gun bleed off valve for releasing excess pressure and a gun nozzle for the delivery of a sand air mixture [in] said gun nozzle having a threaded end for connection with said drilled hole so as to create a substantially fluid tight connection with said drilled hole.

12. (Once Amended) A method of lifting and leveling a slab said method comprising the steps of:

- supplying a sand storage tank filled with a well dried

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mason's sand said storage tank having a sand outlet;
suppling a compressed air source in fluid tight connection
with said sand outlet;
mixing said sand and said compressed air in a mixing
chamber;
delivering said sand and air mixture to an injector gun via
an elongate fluid tight hose said gun further having [an] a gun
nozzle;
drilling a hole and said slab to be leveled; [and]
attaching said gun nozzle to said drilled hole;
operating said injector gun in bursts so as to provide
compressed air sufficient to temporarily lift said slab said
burst also providing sand that permanently fills under said slab
when lifted and raises said slab to a new level.

17. A method of lifting and leveling a slab said method
comprising the steps of:

drilling a strategically placed hole in said slab;
suppling a sand storage tank filled with sand said storage
tank having a sand outlet;
suppling a compressed air source in fluid tight connection
with said sand outlet;
mixing said sand and said compressed air in a mixing
chamber;
delivering said sand and air mixture to an injector gun via
an elongate fluid tight hose said injector gun further having a
gun nozzle for connection with said hole;
attaching said gun nozzle to said drilled hole; and
operating said injector gun in short successive bursts so as

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to provide compressed air sufficient to temporarily lift said slab in short successive bursts said bursts also providing sand that permanently fills under said slab when lifted and raises said slab to a new permanent level.

18. A method of lifting and leveling a slab as in claim 17 further comprising the step of adjusting said sand shutoff valve so as to control the flow of sand to said mixing chamber.

19. A method of lifting and leveling a slab as in claim 18 further comprising the step of drilling a second strategically placed hole in said slab; moving said gun nozzle to said second hole and repeating said operating step.

20. A method do lifting and leveling a slab as in claim 19 further comprising the step of patching said holes to match said slab.

21. A method of lifting and leveling a slab as in claim 20 further comprising the step of suppling a compressed air bleed valve between said compressed air source and sand outlet so as to bleed of excess air.

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CLEAN COPY OF AMENDED CLAIMS 7 AND 12 AND NEW CLAIMS 17-21 AS
ABOVE.

7. A system for lifting and leveling a slab defining at least one drilled hole said system comprising:

- a sand storage tank having a sand outlet;
- a supply of well dried mason's sand within said sand storage tank;
- a compressed air source in fluid tight connection with said sand outlet;
- a mixing chamber connected to said sand outlet and said compressed air source;
- an elongate air and sand delivery line connected to said mixing chamber; and
- an injector gun having a gun bleed off valve for releasing excess pressure and a gun nozzle for the delivery of a sand air mixture said gun nozzle having a threaded end for connection with said drilled hole so as to create a substantially fluid tight connection with said drilled hole.

12. A method of lifting and leveling a slab said method comprising the steps of:

- supplying a sand storage tank filled with a well dried mason's sand said storage tank having a sand outlet;
- supplying a compressed air source in fluid tight connection with said sand outlet;
- mixing said sand and said compressed air in a mixing chamber;
- delivering said sand and air mixture to an injector gun via

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an elongate fluid tight hose said gun further having a gun nozzle;

drilling a hole and said slab to be leveled;
attaching said gun nozzle to said drilled hole;
operating said injector gun in bursts so as to provide compressed air sufficient to temporarily lift said slab said burst also providing sand that permanently fills under said slab when lifted and raises said slab to a new level.

17. A method of lifting and leveling a slab said method comprising the steps of:

drilling a strategically placed hole in said slab;
supplying a sand storage tank filled with sand said storage tank having a sand outlet;

supplying a compressed air source in fluid tight connection with said sand outlet;

mixing said sand and said compressed air in a mixing chamber;

delivering said sand and air mixture to an injector gun via an elongate fluid tight hose said injector gun further having a gun nozzle for connection with said hole,

attaching said gun nozzle to said drilled hole; and

operating said injector gun in short successive bursts so as to provide compressed air sufficient to temporarily lift said slab in short successive bursts said bursts also providing sand that permanently fills under said slab when lifted and raises said slab to a new permanent level.

18. A method of lifting and leveling a slab as in claim 17

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8.3 further comprising the step of adjusting said sand shutoff valve so as to control the flow of sand to said mixing chamber.

19. A method of lifting and leveling a slab as in claim 18 further comprising the step of drilling a second strategically placed hole in said slab; moving said gun nozzle to said second hole and repeating said operating step.

20. A method of lifting and leveling a slab as in claim 19 further comprising the step of patching said holes to match said slab.

21. A method of lifting and leveling a slab as in claim 20 further comprising the step of supplying a compressed air bleed valve between said compressed air source and sand outlet so as to bleed of excess air.
